

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 2

Application No.	10/559,098
Filing Date	January 10, 2007
First Named Inventor	Mario Leclerc
Art Unit	1635
Examiner	PITRAK, Jennifer S.
Attorney Docket No.	GENOM.071NP

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	1	BÄUERLE, The synthesis of Oligothiophenes, Chapter 3, <i>Handbook of Oligo- and Polythiophenes</i> , D. Fichou Ed., Wiley-VCH, Weinheim, pp. 89-181 (1999).	
	2	BASU ET AL., Direct detection of monovalent metal ion binding to a DNA G-quartet by 205T1NMR. <i>J. Am. Chem. Soc.</i> 122:3240-1 (2000).	
	3	BERNIER ET AL., A versatile approach to affinitychromic polythiophenes, <i>J. Am. Chem. Soc.</i> 124(42):12463-8 (2002).	
	4	BLANK ET AL., Systematic evolution of a DNA aptamer binding to rat brain tumor microvessels: Selective targeting of endothelial regulatory protein p1gpen, <i>J Biol Chem.</i> 276(19):18484-8 (2001).	
	5	CHEN ET AL., Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer, <i>Proc. Natl. Acad. Sci. U.S.A.</i> 96(22):12287-92 (1999).	
	6	CLARK ET AL., Aptamers as analytical reagents, <i>Electrophoresis</i> 23(9):1335-40 (2002).	
	7	DAVIS ET AL., Use of a high affinity DNA ligand in flow cytometry, <i>Nucleic Acids Res.</i> 24(4):702-6 (1996).	
	8	DROLET ET AL., An enzyme-linked oligonucleotide assay, <i>Nature Biotechnol.</i> 14(8):1021-5 (1996).	
	9	ELLINGTON ET AL., <i>In vitro</i> selection of RNA molecules that bind specific ligands, <i>Nature</i> 348:818-22 (1990).	
	10	FALD ET AL., Responsive supramolecular polythiophene assemblies. <i>J. Am. Chem. Soc.</i> 120(2):5274-8 (1998).	
	11	FAN ET AL., High-efficiency fluorescence quenching of conjugated polymers by proteins, <i>J. Am. Chem. Soc.</i> 124(20):5642-3 (2002).	
	12	FAN ET AL., Photoluminescence quenching of water-soluble conjugated polymers by viologen derivatives: Effect of hydrophobicity, <i>Langmuir</i> 19(8):3554-6 (2003).	
	13	FAMULOK ET AL., Nucleic acid aptamers - from selection in vitro to applications in vivo, <i>Acc Chem Res.</i> 33(9):591-9 (2000).	
	14	GAYLORD ET AL., DNA hybridization detection with water-soluble conjugated polymers and chromophore-labeled single-stranded DNA, <i>J. Am. Chem. Soc.</i> 125(4):896-900 (2003).	
	15	GREEN ET AL., Aptamers as reagents for high-throughput screening, <i>Biotechniques</i> 30(5):1094-1010 (2001).	
	16	HAMAGUCHI ET AL., Aptamer beacons for the direct detection of proteins, <i>Anal. Biochem.</i> 294(2):128-31 (2001).	
	17	LECLERC, M., Optical and electrochemical transducers based on functionalized conjugated polymers, <i>Adv. Mater.</i> 11(18):1491-8 (1999).	
	18	LEE ET AL., A fiber-optic microarray biosensor using aptamers as receptors, <i>Anal. Biochem.</i> 282(1):142-6 (2000).	
	19	LI ET AL., Molecular aptamer beacons for real-time protein recognition, <i>Biochem. Biophys. Res. Commun.</i> 292(1):31-40 (2002).	

Examiner Signature

Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T<sup>1</sup> - Place a checkmark in the box for "CONSIDERED" or "NOT CONSIDERED" as appropriate. J.P./

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	20	LIN ET AL., High-affinity and specific recognition of human thyroid stimulating hormone (hTSH) by <i>in vitro</i> selected 2'-amino-modified RNA, <i>Nucleic Acids Res.</i> 24(17):3407-14 (1996).	
	21	LISS ET AL., An aptamer-based quartz crystal protein biosensor, <i>Anal. Chem.</i> 74(17):4488-95 (2002).	
	22	MCQUADE ET AL., Conjugated polymer-based chemical sensors, <i>Chem. Rev.</i> 100(7):2537-74 (2000).	
	23	MICHAUD ET AL., Immobilized DNA aptamers as target-specific chiral stationary phases for resolution of nucleoside and amino acid derivative enantiomers, <i>Anal. Chem.</i> 76:1015-1020 (2004).	
	24	NILSSON ET AL., Conformational transitions of a free amino-acid-functionalized polythiophene induced by different buffer systems, <i>J. Phys. Condens. Matter</i> 14:10011-10020 (2002).	
	25	O'SULLIVAN, C.K., Aptasensors - the future of biosensing?, <i>Anal. Bioanal. Chem.</i> 372:44-48 (2002).	
	26	PADMANABHAN ET AL., The structure of $\alpha$ -Thrombin inhibited by a 15-mer single-stranded DNA aptamer, <i>J. Biol. Chem.</i> 268(24):17651-4 (1993).	
	27	ROBERTSON ET AL., Selection in vitro of an RNA enzyme that specifically cleaves single-stranded DNA, <i>Nature</i> 344(6265):467-8 (1990).	
	28	TUERK ET AL., Systematic evolution of ligands by exponential enrichment: RNA ligands to bacteriophage T4 DNA polymerase, <i>Science</i> 249:505-10 (1990).	
	29	UEYAMA ET AL., A novel potassium sensing in aqueous media with a synthetic oligonucleotide derivative. Fluorescence resonance energy transfer associated with Guanine quartet-potassium ion complex formation, <i>J. Am. Chem. Soc.</i> 124(48):14286-7 (2002).	
	30	WANG ET AL., A DNA aptamer which binds to and inhibits thrombin exhibits a new structural motif for DNA, <i>Biochemistry</i> 32(8):1899-904 (1993).	
	31	International Search Report and Written Opinion dated January 31, 2005 from PCT/CA04/00824.	
	32	International Preliminary Patentability Search dated December 8, 2005 from PCT/CA04/00824.	

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Examiner Signature /Jennifer Pitrak/	Date Considered 06/09/2009
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